

CLAIM AMENDMENTS

1 1. (Currently amended) A therapeutic agent
2 which comprises as therapeutically effective ingredients: alpha-
3 ketoglutaric acid or its pharmaceutically effective salts and at
4 least one compound promoting azomethine formation in an enzyme
5 independent reaction and selected from the group consisting of
6 5-hydroxymethyl-furfural, dehydroascorbic acid, malt and vanillin,
7 whereby the mass ratio of the ketoglutaric acid to the at least
8 azomethine formation promoting compound is greater than 1:1 wherein
9 the therapeutic agent contains as further therapeutically effective
10 ingredients:

11 N-acetyl-seleno-L-methionine and N-acetyl-L-methionine whereby the
12 latter is present in excess with respect to the former, in an
13 amount sufficient to suppress uptake of the N-acetyl-seleno-L-
14 methionine into body tissues.

1 2. (previously presented) The therapeutic
2 agent according to claim 1 characterized in that the mass ratio of
3 alpha-ketoglutaric acid to N-acetyl-seleno-L-methionine is 100:1 to
4 20000:1.

1 3. (Currently amended) The therapeutic agent
2 according to claim 1 wherein the mass ratio of N-acetyl-L-methioni
3 ne to N-acetyl-seleno-L-methionine is 20:1 to 300:1.

1 4. (previously presented) The therapeutic
2 agent according to claim 1 wherein it further comprises glucose,
3 fructose or a mixture thereof.

1 5. (previously presented) The therapeutic
2 agent according to claim 1 wherein the compound promoting azome-
3 thine formation is 5-hydroxymethylfurfural.

1 6. (previously presented) The therapeutic
2 agent according to claim 1, wherein it is put up in an aqueous
3 solution and the N-acetyl-seleno-L-methionine is present in an
4 amount of 1.4 to 2.3 mg/l and the N-acetyl-L-methionine is present
5 in an amount of 70 to 230 mg/l.

1 7. (previously presented) The therapeutic
2 agent according to claim 4 wherein it contains an electrolyte from
3 the group of sodium or potassium.

1 8. (previously presented) The therapeutic
2 agent according to claim 1 wherein it is administered intravenously
3 and has a pH value of 4 to 6.

1 9. (currently amended) The therapeutic agent
2 according to claim 4 or claim 7 wherein the alpha-ketoglutaric acid
3 is present in a concentration of 3 to 20 g/l, the compound promot-
4 ing azomethionine azomethine formation is 5-hydroxymethylfurfural
5 present in a concentration of 1 to 3 g/l, the glucose is present in a
6 a concentration of 20 to 100 g/l, the sodium ion is present in a

7 concentration of 60 to 160 mmol/l and the potassium ion is present
8 in a concentration of 15 to 40 mmol/l.

1 10. (previously presented) The therapeutic
2 agent according to claim 9 wherein the alpha-ketoglutaric acid is
3 present in a concentration of 6 to 16 g/l, 5-hydroxymethylfurfural
4 is present in a concentration of 1 to 2.5 g/l, the glucose in a
5 concentration of 20 to 50 g/l, the sodium ion in a concentration of
6 70 to 160 mmol/l and the potassium ion is present in a concentra-
7 tion of 20 to 40 mmol/l.

1 11. (previously presented) The therapeutic
2 agent according to claim 1 which is put up in a solid or liquid or
3 oral or rectal administration dosage form which contains the
4 ketoglutaric acid at least in part in the form of a monosodium or
5 monopotassium salt thereof.

1 12. (previously presented) The therapeutic
2 agent according to claim 11 which further comprises a lubricating
3 agent and/or extender and/or a taste improving disaccharide.

1 13. (previously presented) The therapeutic
2 agent according to claim 11 which comprises in the dosage unit 3 to
3 9 g of alpha-ketoglutaric acid, 0.5 to 1.5 g 5-hydroxymethyl-
4 furfural, 1.4 to 2.3 mg N-acetyl-seleno-L-methionine and 70 to 230
5 mg of N-acetyl-L-methionine.

1 14. (Previously presented) A method of making
2 a therapeutic agent in a form suitable for intravenous administra-

3 tion according to claim 8 wherein the alpha-ketoglutaric acid is
4 dissolved at elevated temperature in distilled water which has had
5 its oxygen content reduced by a gasification and glucose or fruc-
6 tose added to it together with alkalies other than ammonia or
7 amines, the pH being adjusted to be in a range of 4 to 6 and
8 N-acetyl-seleno-L-methionine, N-acetyl-L-methionine and the com-
9 pound promoting azomethine formation.

1 15. (Currently amended) A method of making a
2 preparation suitable for oral or rectal administration according to
3 claim 11 wherein to adjust the pH from 3 to 6 the ketoglutaric acid
4 is partly to entirely used in the form of its monosalt with sodium
5 and/or potassium and in which extenders and if desired also
6 disaccharides are mixed therewith and to this mixture the compound
7 promoting azomethine formation, the N-acetyl-seleno-L-methionine
8 and the N-acetyl-L-methionine are added whereupon the mixture is
9 put up in the desired form of administering as a particule parti-
10 cle, granulate, in tablets, or in an irrigating liquid.

16. (canceled)

17. (canceled)

1 18. (Currently amended) A cytocidal method of
2 treating a malignant breast, uterine, esophageal, bladder or lung
3 tumor in a patient afflicted with said malignant tumor which
4 comprises the step of administering to said patient, an amount of
5 the therapeutic agent defined in claim 1, effective to treat the
6 malignant tumor by suppressing angiogenic activity of the tumor.

1 19. (previously presented) The cytocidal method
2 of treating a malignant tumor defined in claim 18 wherein the
3 therapeutic agent is administered to the patient orally, rectally,
4 in the form of an irrigation, or as an intravenous infusion.

1 20. (previously presented) The cytocidal
2 method of treating a malignant tumor defined in claim 19 wherein
3 the therapeutic agent is administered to the patient as an intrave-
4 nous infusion.

21. (Cancelled)

22. (canceled)

1 23. (New) A therapeutic agent administrable as
2 an intravenous infusion, which consists essentially of:
3 alpha-ketoglutaric acid 3 - 20 g/l
4 5-hydroxymethylfurfural 1 - 3 g/l
5 N-acetyl-seleno-L-methionine 1.4 - 2.3 mg/l
6 N-acetyl-L-methionine 70 - 230 mg/l
7 glucose 20 - 100 g/l
8 sodium ion 60 - 160 mmol/l and
9 potassium ion 15 - 40 mmol/l
10 in combination with a pharmaceutically acceptable inert carrier
11 suitable for intravenous administration.

1 24. (New) A cytocidal method of treating a
2 malignant breast, uterine, esophageal, bladder or lung tumor in a
3 patient afflicted with said malignant tumor which comprises the
4 step of administering to said patient, by intravenous infusion, an
5 amount of the therapeutic agent defined in claim 23, effective to
6 treat the malignant tumor by suppressing angiogenic activity of the
7 tumor.

1 25. (New) The therapeutic agent administrable
2 as an intravenous infusion, defined in claim 23 wherein the alpha-
3 ketoglutaric acid is present in an amount of 9.0 g/l; the
4 5-hydroxymethylfurfural is present in an amount of 3.0 g/l; the
5 N-acetyl-seleno-L-methionine is present in an amount of 2.0 mg/l;
6 and the N-acetyl-L-methionine is present in an amount of 100 mg/l.

1 26. (New) A cytocidal method of treating a
2 breast, uterine, esophageal, bladder or lung carcinoma in a patient
3 afflicted with said carcinoma which comprises the step of
4 administering to said patient, by intravenous infusion, an amount
5 of the therapeutic agent defined in claim 25, effective to treat
6 the carcinoma by suppressing angiogenic activity of the carcinoma.